Commission and procedure of examination by Pre Public Investment Board in respect of power projects has been dispensed with in order to reduce the time cycle of sanctioning of public sector projects.

4. The limit for incurring capital expenditure on new project without Government approval has been enhanced for Central Public Sector Undertakings (CPSUs).

5. The National Thermal Power Corporation which is Navratna Public Sector Undertaking, and Damodar Valley Corporation, which is a statutory organization created by an Act of Parliament do not require any approval of the Government of incurring capital expenditure for taking up new projects.

6. Concerned State Government grants the investment approval for power project under the State Sector.

Demand and supply of power

1294. SHRI JANARDHANA POOJARY: Will the Minister of POWER be pleased to state:

(a) the quantum of power generated in the country during the last five years, year-wise and State-wise;

(b) whether the demand for power is continuously on the rise from agricultural, industrial and non-production (household) sectors;

(c) if so, the details for the last five years, year-wise, State-wise and sector-wise;

(d) whether it is a fact that loss to the extent of 40 per cent is suffered by the power plants at the production and distribution stage itself; and

(e) if so the measures proposed to be taken to minimize such loss and enhance power generation in the country?

THE MINISTER OF POWER (SHRI SUSHIL KUMAR SHINDE): (a) The details of quantum of power generated in the various States of the country during the last five years are enclosed of Statement-I (See below).

(b) and (c) A Statement indicating (State-wise and category-wis,e)

energy consumption data for last five years is enclosed is Statement (See below). It may be seen that there has been a rising trend in the pattern of energy consumption in the various categories of consumers *viz.* Agricultural, Industrial and Domestic except for the year 2001-02, wherein the energy consumption in Industrial and agricultural sector has shown a marginal decline.

(d) In the process of delivering the power to the consumers, some power is consumed for meeting the requirement of the auxiliaries & in transformation loss from generation voltage to transmission voltage in the power plants. Subsequently, losses occur in transmission and distribution.

While the auxiliary power consumption in thermal power stations has been about 9.0%, the same in hydro power stations has been upto 1%. The percentage loss in the country during 2004-05 due to transformation, transmission and distribution including energy unaccounted for was 31.25%

(e) The following measures are proposed to be taken to minimize aforementioned losses:

- Adoption of better operation and maintenance practices.
- 100% metering on Consumers Powers Supply, 11 kV feeders and Distribution Transformers.
- Strengthening the anti-theft vigilance activities.
- Carrying-out energy audit.

The following steps have been taken/are being taken to improve power generation in the country.

(i) Rigorous monitoring of capacity addition of the on-going generation projects.

(ii) Advance planning of generation capacity addition projects for the Eleventh Five Year Plan.

(iii) Implementation of Ultra Mega Power Projects of 4000 MW each to achieve benefit of economy of scale.

(iv) "Partnership in Excellence" Programme starting with adoption

of better operation and maintenance (O&M) practices to enable enhancement of Plant Load Factor (PLF) of existing thermal power stations through tie-up with well performing power utilities as a pre-cursor to renovation and modernization.

(v) Renovation, modernization and life extension of old and inefficient generation units with interest subsidy on loans by the Power Finance Corporation and Rural Electrification Corporation under Accelerated Generation and Supply Programme (AG&SP).

(vi) Tapping of surplus power from captive power plants.

(vii) Utilization of unutilized capacity of gas based stations on liquid fuel.

(viii) Coordinated operation and maintenance of hydro, thermal, nuclear and gas based power stations to optimally utilize the existing generation capacity.

(ix) Optimum utilization of available power by strengthening of inter-State and inter-regional transmission capacity.

Statement-I

Growth of electric power generation State-wise/year-wise

Gwh

States/U.Ts.	2000-01	2001-02	2002-03	2003-04	200405
1	2	3	4	5	6
Haryana	7237.84	8453.64	9783.14	10865.37	9847.31
Himachal Pradesh	1153.33	1336.48	1650.00	2810.95	2754.36
Jammu & Kashmir	564.00	632.88	381.00	920.00	710.72
Punjab	22433.68	23003.39	22341.37	24047.89	21677.55
Rajasthan	13316.91	14172.32	17171.06	18614.08	2098.80
Uttar Pradesh	24889.00	22633.00	22377.23	22835.51	20911.42
Uttaranchal	0.00	2914.00	3426.13	4514.77	3113.13
Chandigarh	0.00	0.00	0.00	0.00	0.00
Delhi	2552.96	2451.74	3351.30	4906.69	5476.41
Central Sector NR	72827.03	76247.71	76303.75	78147.73	84667.00
Sub-Total (N R)	144974.75	151845.16	156784.98	167662.99	170143.70

1	2	3	4	5	6
Gujarat	36080.58	32926.98	37114.15	38269.84	44230.80
Madhya Pradesh	21467.75	14038.20	15484.72	15802.08	15975.24
Chhattisgarh	0.00	8159.67	7870.17	7916.43	8307.60
Maharashtra	61539.04	63237.22	63449.15	66390.48	67078.27
Goa	304.63	307.00	273.05	202.27	336.16
O&N Haveli	0.00	0.00	0.00	0.00	0.00
Daman & Diu	0.00	0.00	0.00	0.00	0.00
Central Sector WR	43839.80	45641.47	47164.72	45494.61	48156.34
Sub-Total (WR)	163231.80	164310.54	171355.96	174075.71	184084.41
Andhra Pradesh	33938.43	33915.54	33478.00	32913.93	37305.14
Karnataka	22500.61	22949.09	21011.26	22996.43	23515.43
Kerala	7152.40	7506.64	5785.80	5629.02	6514.95
Tamil Nadu	27578.64	29963.43	30821.33	30353.93	32229.72
Lakshadweep	18.92	19.86	20.89	21.87	22.61
Pondicherry	234.14	249.35	264.00	275.42	275.41
Central Sector SR	37363.75	36873.69	43285.88	47260.52	46623.64
Sub-Total (S R)	128786.89	131477.60	134667.16	139451.12	146486.90
Bihar	3594.54	732.69	594,52	447.38	206.99
Jharkhand	0.00	3906.07	3906.00	4438.83	4168.29
Orissa	7801.90	9265.44	5882.43	9119.33	1030.96
West Bengal	18123.71	20608.64	21979.05	23508.42	24888.26
DVC.	8193.27	7835.03	8955.59	10014.79	10845.28
A & N Islands	110.00	115.00	138.80	157.61	129.60
Skkim	44.10	45.00	40.53	36.00	58.83
Central Sector ER	21100.67	21982.68	22991.51	29527.42	35203.03
Sub-Total (E R)	58968.19	64490.55	64488.43	77249.78	35808.24
Assam	1084.85	' 996.64	884.00	848.27	903.24
Manipur	2.35	0.67	0.00	0.00	1.32
Meghalaya	657.85	617.99	573.51	597.03	637.65
Nagaland	3.21	8.06	23.65	23.55	3.50
Tripura	306.54	285.74	336.38	501.48	554.76
Arunachal Pradesh	64.00	64.14	27.00	29.00	2.00
Mizoram	12.52	9.33	9.95	10.56	5.81
Central Sector NER	3111.12	3332.82	3541.93	4652.20	5824.67
Sub-Total (N E R)	5242.44	5315.39	5396.42	6662.09	7932.95
Total All India	501204.07	517439.24	532692.95	565101.69	594456.20

Statement-Il

Energy Consumption in Domestic, Agriculture and Industrial Sector (2000-01 to 2004-05)

(Figs, in MUs.)

	Domestic					Industrial					Agriculture				
1	2	3	4	5	6	7	8	'9	10	11	12	13	14	15	16
State/UT	200001	2001-02	2002-03	200304	2004-05	200001	2001-02	2002-03	200304	2004-05	2000-01	2001-02	2002-03	200304	2004-05
Haryana	2200-68	229340	2367.97	2841.89	2841.89	223029	257468	278528	3239.83	347954	4536.30	4472.85	516508	5613.76	5682.49
Himachal Pradesh	636-52	67442	704.86	80979	809.79	1069.02	112254	1203.96	134899	149185	19.20	18.05	19.55	19.54	2528
Jammu & Kashmir	1291.34	1147.99	1300.78	1525.60	1525.80	42726	558.48	660.38	701.89	771.52	141.60	12252	109.01	115.86	127.55
Punjab	4224.09	4380.72	478785	506326	506326	7898.26	8070.96	8121.77	8593.48	8719.19	553435	5451.85	581846	6242.86	645831
Rajasthan	2869.20	286205	302920	337595	3375.96	4611.91	456476	4725.28	471909	5202.43	7046.30	3849.91	432611	4274.37	5322.13
Uttar Pradesh	9051.75	925764	865979	1032712	1032712	5101.05	463278	5623.14	5096.22	656003	5259.71	4985.57	482086	4951.63	4865.83
Uttaranchal	0.00	93384	1085.63	1010.39	101039	0.00	326.95	54610	656.07	888.82	000	479.52	369.14	318.33	487.96
Chandigarh	254.40	286.37	29361	35683	35683	191.64	20288	204.28	208.53	24432	230	226	2.30	2.35	1.76
Delhi	4470.07	447950	449223	626381	626381	234764	2341.00	1789.56	1709.00	1937.75	12667	123	1480.29	90.82	71.65
SUB-TOTAL (NR)	2499305	26350.93	26721.72	31574.6 ς	31574.65	2387716	24395.03	25659.75	262731	2929545	22665.43	19505.53	22120.00	21529.52	2305294
Gujrat	4337 03	4263.81	4503.76	5434.31	. 5434.31	10994.43	1101325	13893.19	15293.48	15867.25	1548928	15696.16	12965.55	14360.58	12055.46
Madhya Pradesh	3863.22	338090	3301.05	383224	383224	6808.30	4185.64	4188.49	4370.72	4712-45	489774	4583.97	5196.07	558297	584678
Chhattisgarh	0.00	982.53	1093.84	138574	1385.74		1709.39	1840.10	2331.75	4313.45	0.00	678.19	734.14	630.89	1047.50
Maharashtra	10929.57	1190727	12230.26	1266235	12662.35	18793.38	1755378	18449.50	1996263	22680.34	987622	867281.00	10541.48	1057201	10733.31
Goa	28626	329.88	351.48	303.64	30364	58935	661.33	693.91	758.91	1018.89	13.30	14.01	18.09	18.27	15.93
Daman & Diu	28.23	29.15	3693	41.93	41.98	578.63	678.68	748.65	1491.63	924.60	1.70	1.95	1.92	4.73	261
D & N Haveli	1670	18.40	25.00	30.05	30.06	701.12	772.59	861.00	84642	1705.50	0.83	0.91	1.50	200	5.50
SUB-ToTM. (WR)	1946.01	20911.94	2154232	23690.3 ?	23690.32	38446521	36574.66	406.7484	4505554	5122248	30279.07	29648.00	29558.75	31171.45	2970909
Andhra Pradesh	6291.15	687296	711700	7879.17	7879.17	5534.07	6889.84	7603.50	906458	11607.43	1174796	12828.92	1291210	1344819	14160.72
Karnataka	3924.34	4067.40	4251.95	4923.79	4923.79	560594	6473.40	6504.78	608346	6470.47	7435.22	7541.34	8507.91	899248	9323.81

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Kerala	4714.83	374410	3835.75	4292.16	4292.16	381460	X11.93	2989.37	305986	3008.64	35021	18748	183.97	18809	200.25
Tamil Nadu	715713	7935.55	8837.00	11083.00	1103300	12345.3	12832.92	1304693	15262.21	14117.97	9311.65	9622.46	9030.00	938200	9766.00
Pondicherry	20432	218.35	24437	286.46	28646	997.09	1140.30	1101.82	0.41	1290.14	96.89	97.12	9763	.0.00	11835
Lakshadweep	1156	1203	1271	1412	14.12	049	043	044	118775	0.40	0.00	0.00	0.00	117.73	0.00
SUB-TOTAL (SR)	22303.33	22870.39	24298.78	28478.70	28478.70	2829753	30348.82	3124684	3464327	3649505	28941.93	30277.32	3073161	32128.49	33599.1
Bihar	1076.65	744.43	1108.96	1209.30	1209.30	717323	82983	75676	78354	819.10	1548.63	670.60	99358	1028.74	106050
Jharkhand $	0.00	27673	53912	840.48	84048	000	5541.95	539391	590923	6390.56	0.00	149.01	50.12	13462	6065
Orissa	216600	228374	249554	266318	2663.18	258300	2205.53	2925.30	3078.66	3585.00	196.00	163.91	171.76	180.76	18311
West Bengals	4369.23	4848.47	5208.53	561878	5618.78	629255	648287	727019	7604.26	860024	99897	1183.10	724.58	785.39	83348
A&N Islands	4467	45.50	57.63	60.30	6030.00	425	4.80	4.55	4.76	425	000	0.00	0.00	0.00	. 0.00
Sikkim	51.62	65.30	3220	98.50	98.50	17.50	1600	8.60	21.39	27.00	0.00	000	0.00	000	000
SUB-TOTAL (ER)	7708.17	8294.17	9442.98	10490.54	1049054	1607053	15080.98	16359.31	17401.84	19426.15	2743.60	2165.62	194004	2129.51	2137.74
Assam	536.58	674.97	711.35	72205	72205	70047	600.41	650.54	637.13	591.01	4068'	9.50	51.55	50.49	14.31
Manipur	9822	8942	94.45	113.42	113.42	11.49	11.50	11.90	8.00	804	0.40	0.72	0.85	0.61	022
Meghalaya	15223	164.34	185.88	171.58	171.58	120.58	17219	284.37	45592	490.82	0.35	0.39	0.35	0.47	0.93
Nagaland	94.80	57.55	71.41	12002	120.02	25.72	4267	19.95	21.48	3.65	000	0.09	0.00	0.00	0.00
Tripura	110.86	135.33	14224	148.47	148.47	44.10	6.80	4800	7250	50.17	5780	6522	8200	78.71	70.98
Arunachal Pradesh	68.50	4618	3472	65.00	65.00	7.38	4.70	1.67	264	4.50	0.00	0.00	0.00	0.00	0.00
Mizoram	97.20	99.16	109.23	84.72	84.72	1.44	7.97	1.59	1.68	1.93	0.00	0.00	0.00	0.00	0.00
SUB-TOTAL (NER)	1158.39	1266.95	134928	1425.26	1425.26	911.16	896.11	1018.02	119932	1150.12	99.23	75.92	134.75	130.28	86.44
TOTAL (ALL INDIA)	75628.95	79694.38	8335508	95659.47	95559.47	107621.59	107295.60	114958.76	124573.07	13753925	84729.26	81673.39	84485.95	8708925	88555.3

$-lncludes DVCs sales to ultimate *consumers* in Jharkhand & West Bengal area